

REMARKS

By this Amendment, claim 1 is cancelled, and claims 2-5 are amended. Thus, claims 2-5 are active in the application. Reexamination and reconsideration of the application are respectfully requested.

The specification and abstract have been carefully reviewed and revised in order to correct grammatical and idiomatic errors in order to aid the Examiner in further consideration of the application. The amendments to the specification and abstract are incorporated in the attached substitute specification and abstract. No new matter has been added.

Also attached hereto is a marked-up version of the substitute specification and abstract illustrating the changes made to the original specification and abstract.

In item 1 on page 2 of the Office Action, the Examiner objected to the title of the invention as not being descriptive. The Examiner required a new title of the invention that is clearly indicative of the invention to which the claims are directed.

In response to the Examiner's objection to the title, the title has been revised to "Optical Detection Sensor." The Applicants respectfully submit that the revised title of the invention is clearly descriptive by being indicative of the invention to which the claims are directed. Approval of the revised title of the invention is respectfully requested.

In item 2 on page 2 of the Office Action, the Examiner objected to the drawings because reference numeral "111" was believed to be used to designate both the light-projecting surface and the light-receiving surface. The Applicants respectfully disagree with the Examiner's contention that reference numeral "111" is used in the drawings to designate both the light-projecting surface and the light-receiving surface.

Figures 1-4 respectively illustrate the first through fourth embodiments of the present invention. Figures 1-3 illustrate similar representations of the light-projecting component 11 and the light-receiving component 12. As described, for example, in paragraph [0022] on pages 7-8 of the original and substitute specifications, the automatic door sensor 1 includes the light-receiving component 11 and the light-receiving component 12. Figures 1-3 clearly illustrate a line between the light-projecting component 11 and the light-receiving component 12 to indicate that the adjacent but

separate boxes respectively represent the light-projecting component 11 and the light-receiving component 12. Figure 4 differs from Figures 1-3 in that a rotatable shaft 43 is disposed between the light-projecting component 11 and the light-receiving component 12.

Figures 1-4 each illustrate reference numeral 111 as denoting the light-projecting surface of the light-projecting component 11, and illustrate reference numeral 112 as denoting the light-receiving surface of the light-receiving component 12. The Applicants respectfully submit that the arrow originating from reference numeral 111 in each of Figures 1-4 does not point to the light-receiving surface 112. Similarly, the arrow originating from reference numeral 112 in each of Figures 1-4 does not point to the light-projecting surface 111. Therefore, the Applicants respectfully submit that reference numeral 111 is not used in the drawings to designate both the light-projecting surface 111 and the light-receiving surface 112.

Accordingly, the Applicants respectfully request the Examiner to withdraw the objection to the drawings.

The Applicants thank the Examiner for kindly indicating, in item 6 on page 5 of the Office Action, that claims 2-5 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The Applicants note that original dependent claims 2-5 each depended from claim 1.

Claims 2-5 have each been rewritten in independent form to include the limitations originally recited in cancelled claim 1. Furthermore, minor editorial revisions were made to claims 2-5 in order to improve the U.S. form of the limitations recited in original claims 1-5. The Applicants submit, however, that the revisions made to claims 2-5 was not to broaden or narrow the scope of protection for the present invention.

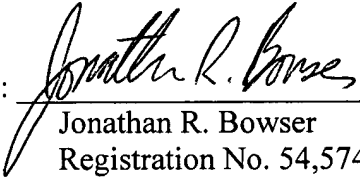
Accordingly, in view of the Examiner's assertion that claims 2-5 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, the Applicants respectfully submit that claims 2-5 are clearly in condition for allowance.

In view of the foregoing amendments and remarks, it is respectfully submitted that the present application is clearly in condition for allowance. An early notice thereof is respectfully solicited.

If, after reviewing this Amendment, the Examiner feels there are any issues remaining which must be resolved before the application can be passed to issue, the Examiner is respectfully requested to contact the undersigned by telephone in order to resolve such issues.

Respectfully submitted,

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